



K. A. BISSET, D.Sc.
READER IN SYSTEMATIC BACTERIOLOGY.

DIRECTOR OF LABORATORY:
PROFESSOR J. F. D. SHREWSBURY, M.D., D.P.H.
ASSIST. DIRECTOR:
NANCY LAUGHTON
M.D., M.R.C.S., D.P.H.

UNIVERSITY OF BIRMINGHAM

DEPARTMENT OF BACTERIOLOGY,
THE MEDICAL SCHOOL,
THE HOSPITALS CENTRE,
BIRMINGHAM, 15.

25/4/55

Dear Leedberg,

Sorry I have no further copies of the paper to which you refer. However, most of the material will be in the new edition of my cytology book, which is now almost ready for issue.

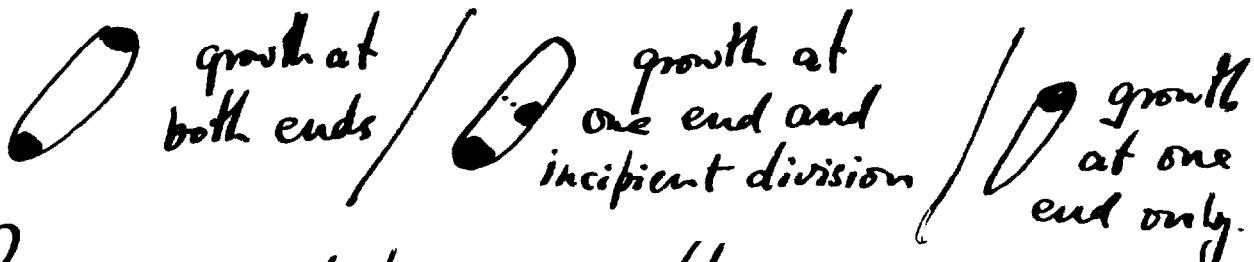
Newly-divided bacteria may well be equally motile if there are any active flagella at all on the 'new' daughter.

One flagellum is as good as a hundred for swimming; my idea is the multiple flagella are an adaptation to progress through viscous fluids or to swimming.

A single-flagellate vibrio is the best swimmer of the lot; but Proteus can walk!

But in any case, the degree of flagellar development on the 'new' cell is different in different species and, I expect, strains. I never studied their actual motility, I'm afraid.

Some do, in fact grow from both ends in the later, logarithmic stages; and I interpret your sketches so:—



Bergesen's paper on chloramphenicol effects are very interesting in this respect.

Glad you liked the coccus paper! Have you noticed all D's damned lies in his Ann. Rev. Microbiol. review. I honestly think the man must be slightly basney.

Best regard — sincerely, Bisset